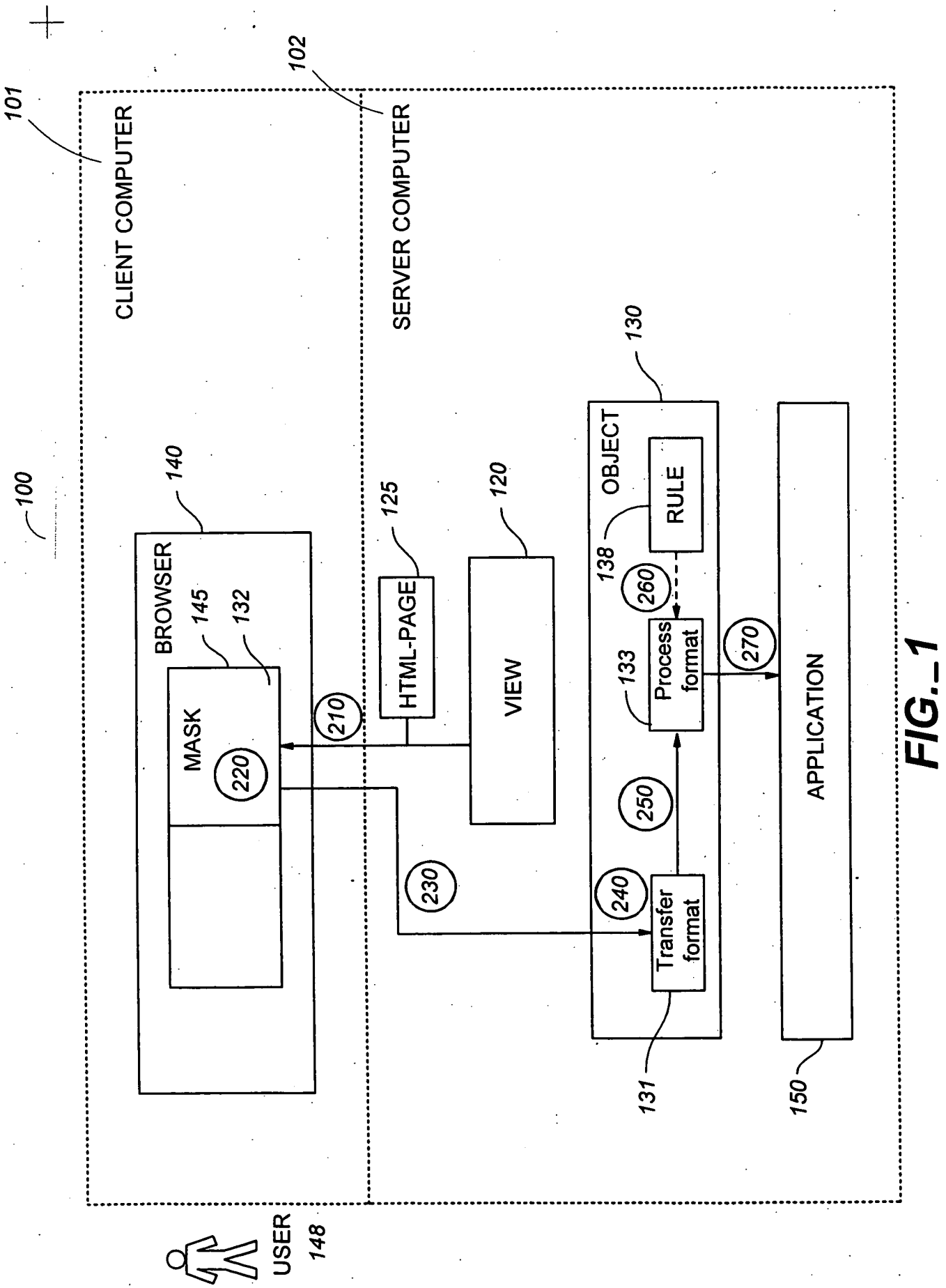
100
101
CLIENT COMPUTER
102
SERVER COMPUTER
BROWSER
140
MASK
145
132
220
210
HTML-PAGE
125
VIEW
120
OBJECT
130
RULE
138
260
Process format
133
270
APPLICATION
250
230
240
Transfer format
131
150
USER
148

FIG._1

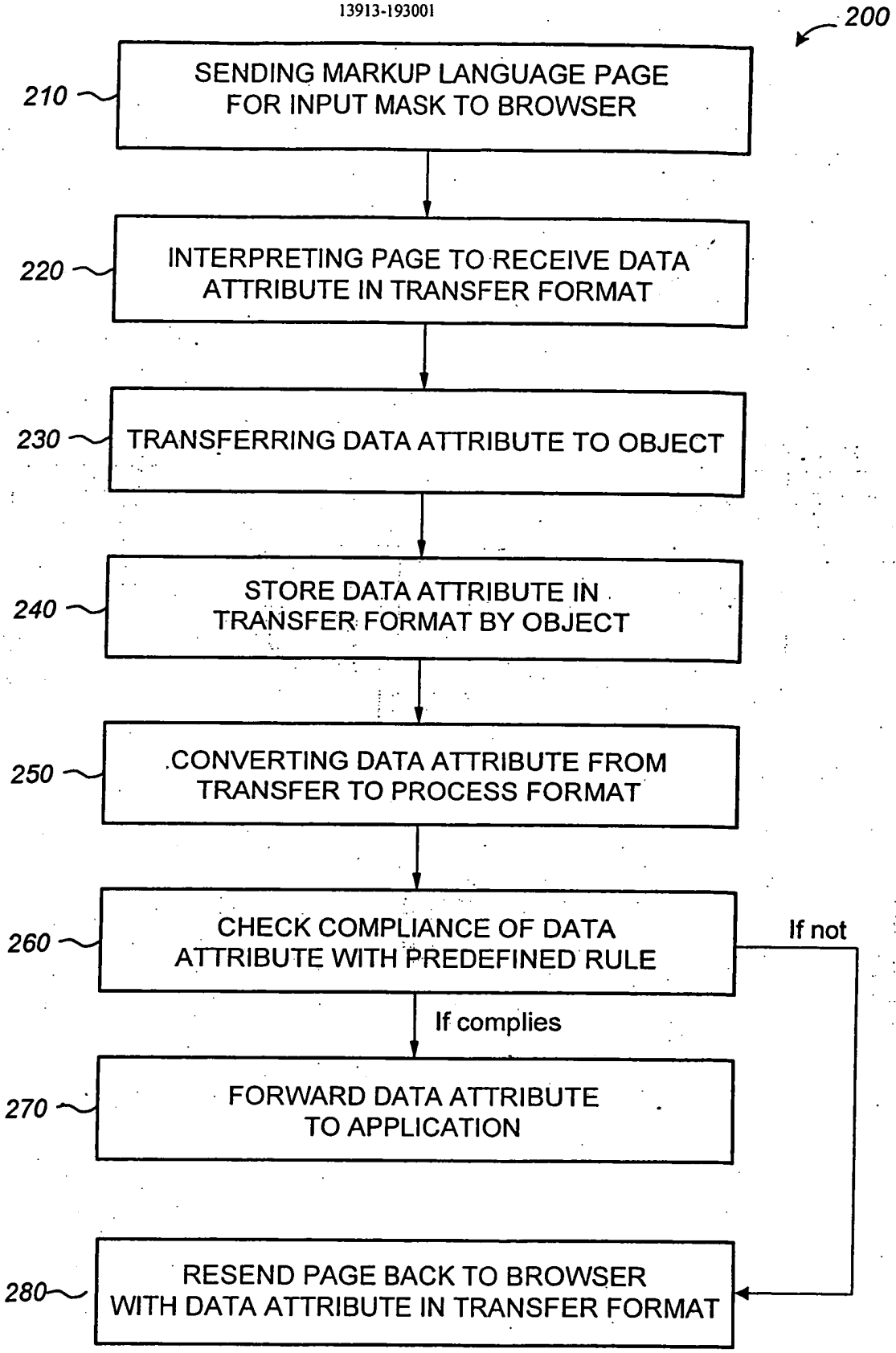
200
210
SENDING MARKUP LANGUAGE PAGE FOR INPUT MASK TO BROWSER
220
INTERPRETING PAGE TO RECEIVE DATA ATTRIBUTE IN TRANSFER FORMAT
230
TRANSFERRING DATA ATTRIBUTE TO OBJECT
240
STORE DATA ATTRIBUTE IN TRANSFER FORMAT BY OBJECT
250
CONVERTING DATA ATTRIBUTE FROM TRANSFER TO PROCESS FORMAT
260
CHECK COMPLIANCE OF DATA ATTRIBUTE WITH PREDEFINED RULE
If not
If complies
270
FORWARD DATA ATTRIBUTE TO APPLICATION
280
RESEND PAGE BACK TO BROWSER WITH DATA ATTRIBUTE IN TRANSFER FORMAT

FIG._2

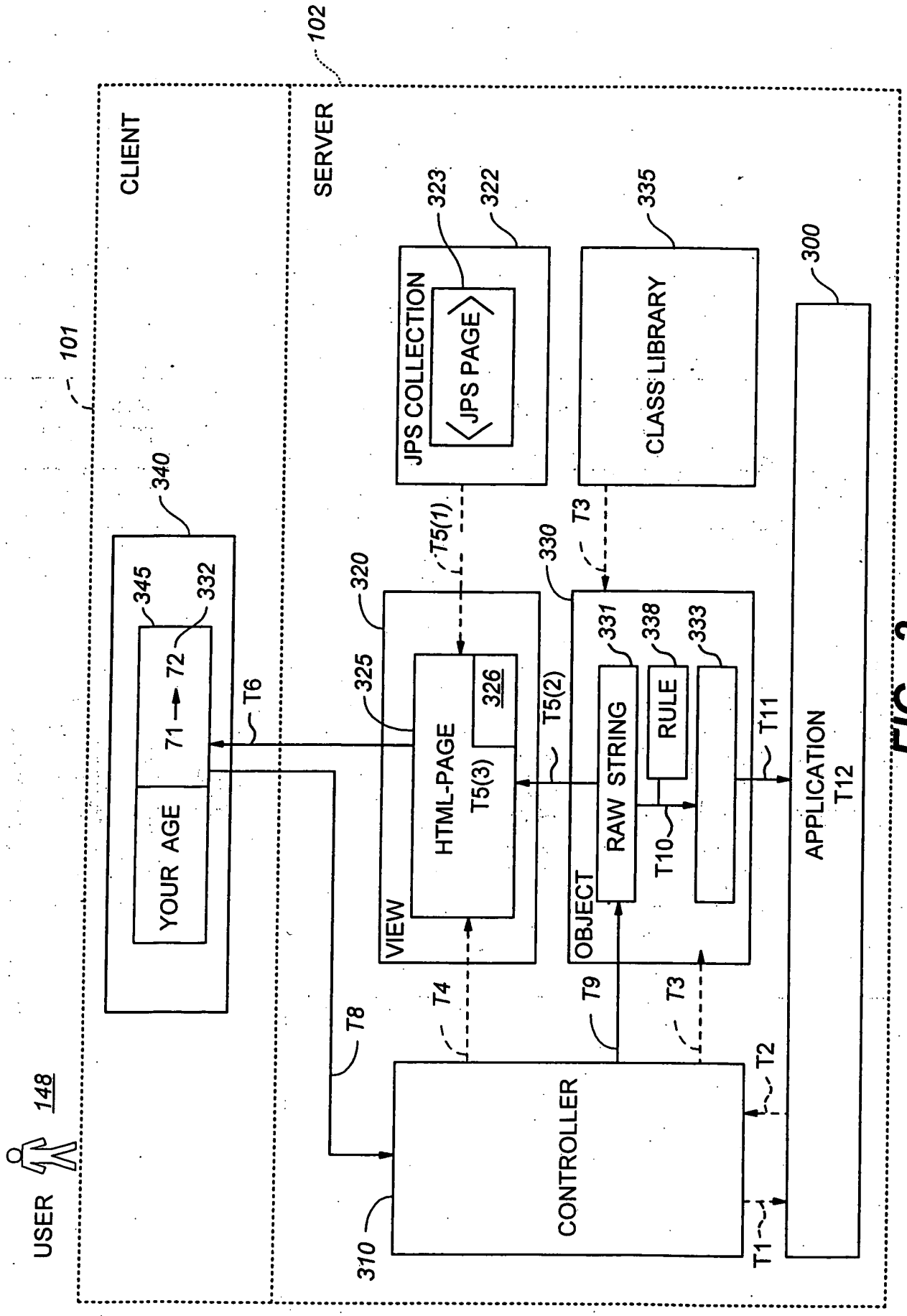
102
CLIENT
SERVER
101
JPS COLLECTION
323
322
JPS PAGE
CLASS LIBRARY
335
300
340
345
332
71 → 72
YOUR AGE
T6
320
325
VIEW
HTML-PAGE
326
T5(3)
T5(1)
T5(2)
330
T3
331
338
333
OBJECT
RAW STRING
RULE
T10
T11
APPLICATION
T12
T4
T9
T3
T8
T2
T1
310
CONTROLLER
148
USER

FIG._3

```
(1)  <html>
(2)  <head>
(3)  </head>
(4)  <body>
(5)  YOUR AGE < input type = "text" ID = "<%=obj.id%>" value = "<%= obj.rawstring%>" </input>
(6)  <body>
(7)  </html>
```

FIG._4

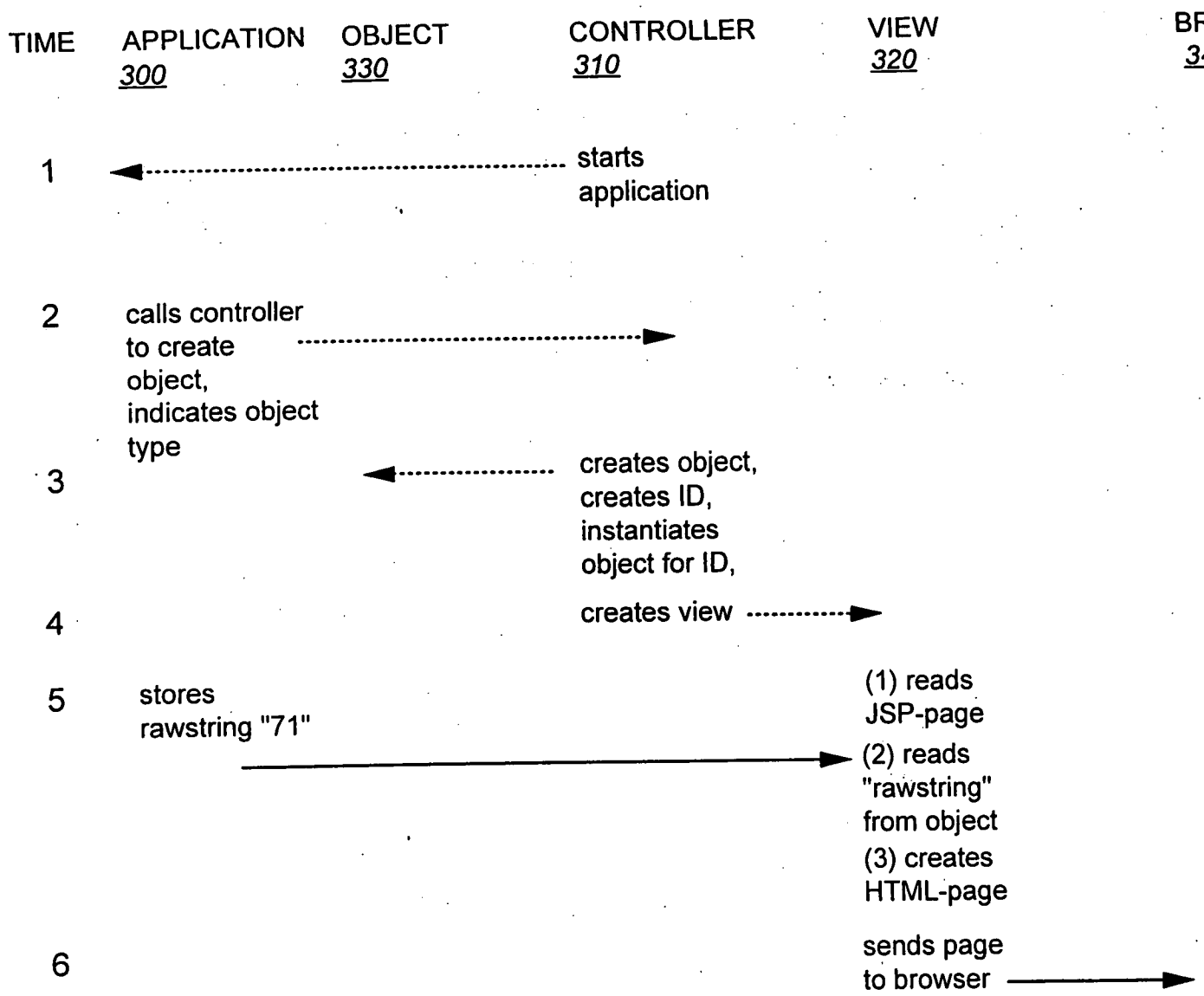
TIME
APPLICATION 300
OBJECT 330
CONTROLLER 310
VIEW 320
BROWSER 340
1
starts application
2
calls controller to create object, indicates object type
3
creates object, creates ID, instantiates object for ID,
4
creates view
5
stores rawstring "71"
(1) reads JSP-page
(2) reads "rawstring" from object
(3) creates HTML-page
6
sends page to browser

FIG._6A

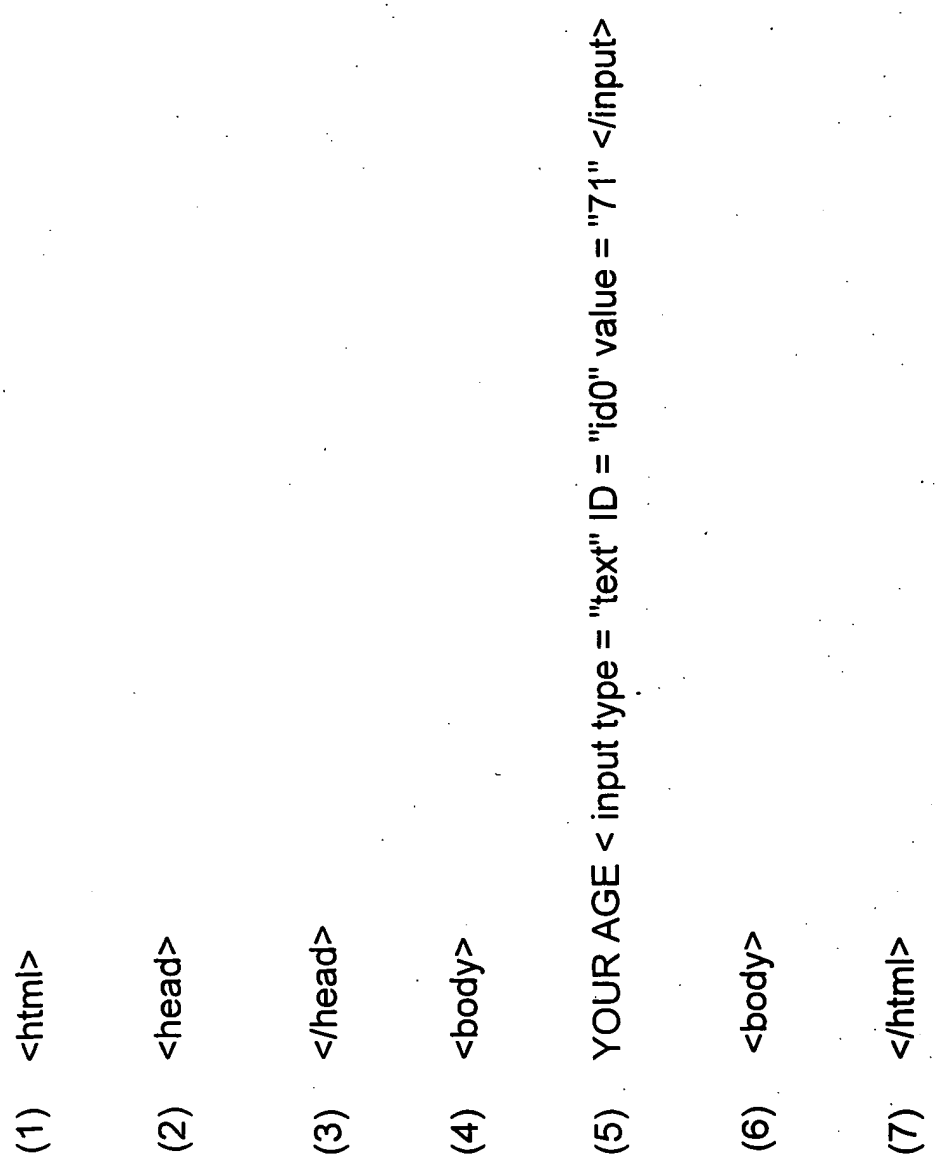
(1) <html>
(2) <head>
(3) </head>
(4) <body>
(5) YOUR AGE < input type = "text" ID = "id0" value = "71" </input>
(6) <body>
(7) </html>

FIG._5

| TIME | APPLICATION *300* | OBJECT *330* | CONTROLLER *310* | VIEW *320* | BROWSER *340* |
|---|---|---|---|---|---|
| 8 | | | ← | | transfers attribute to controller |
| 9 | | stores rawstring "72" ← | dispatches attribute to object | | |
| 10 | | checks and converts rawstring to integer | | | |
| 11 | ← | forwards integer to application | | | |
| 12 | processes integer | | | | |

FIG._6B

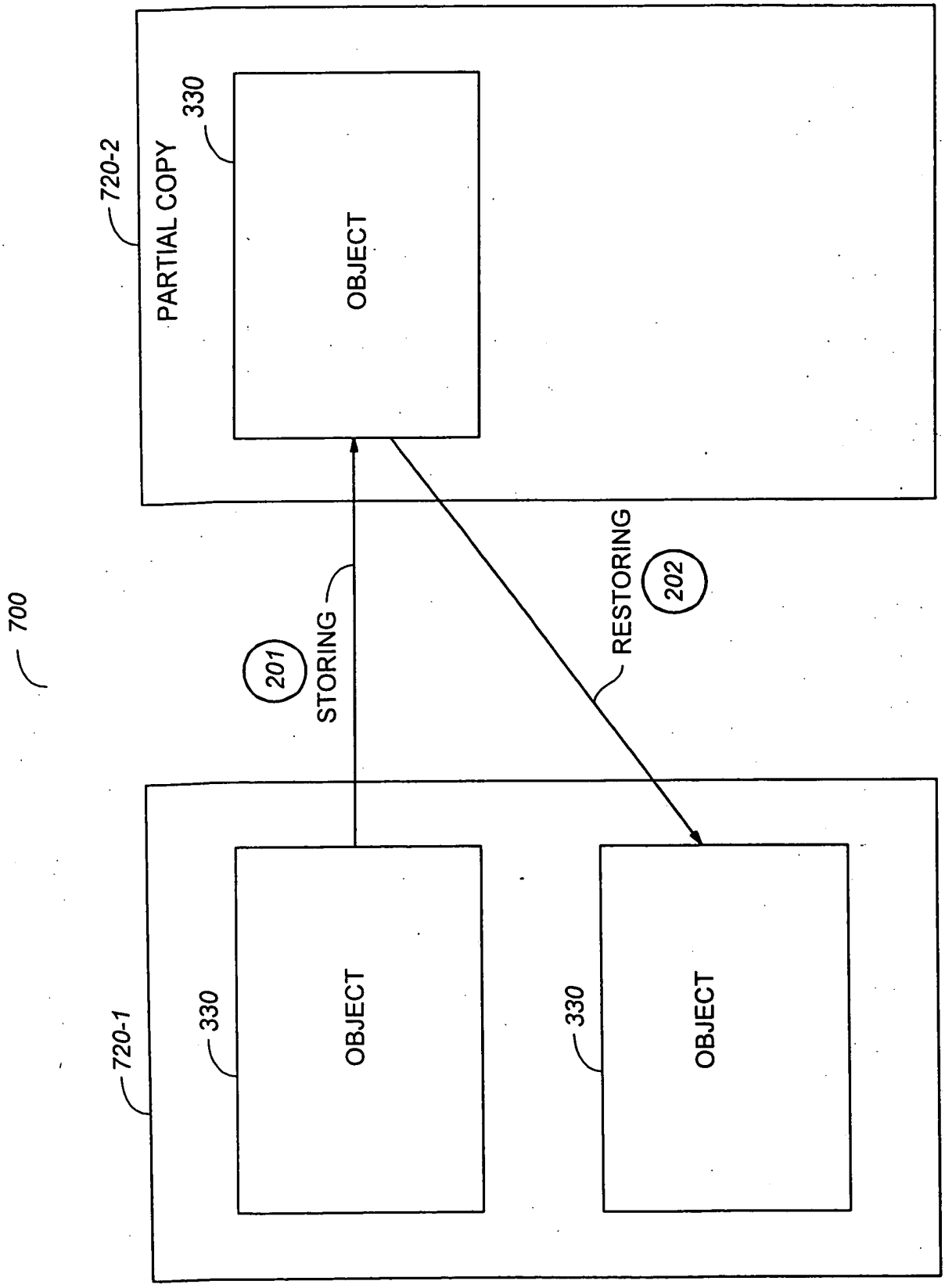
700
720-2
PARTIAL COPY
330
OBJECT
STORING
201
RESTORING
202
720-1
330
OBJECT
330
OBJECT

FIG.-7

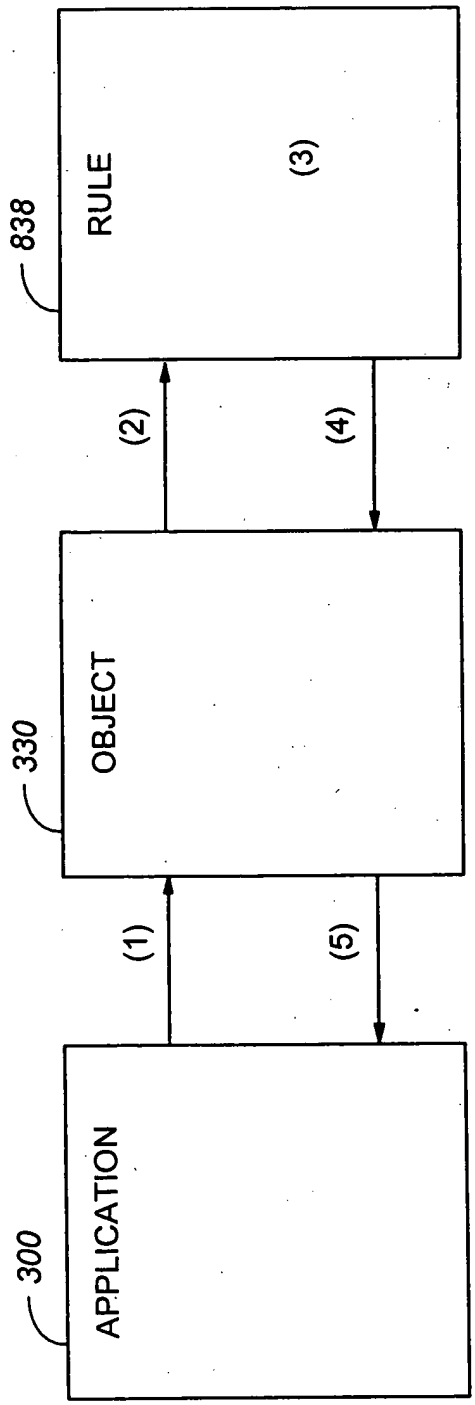


FIG._8

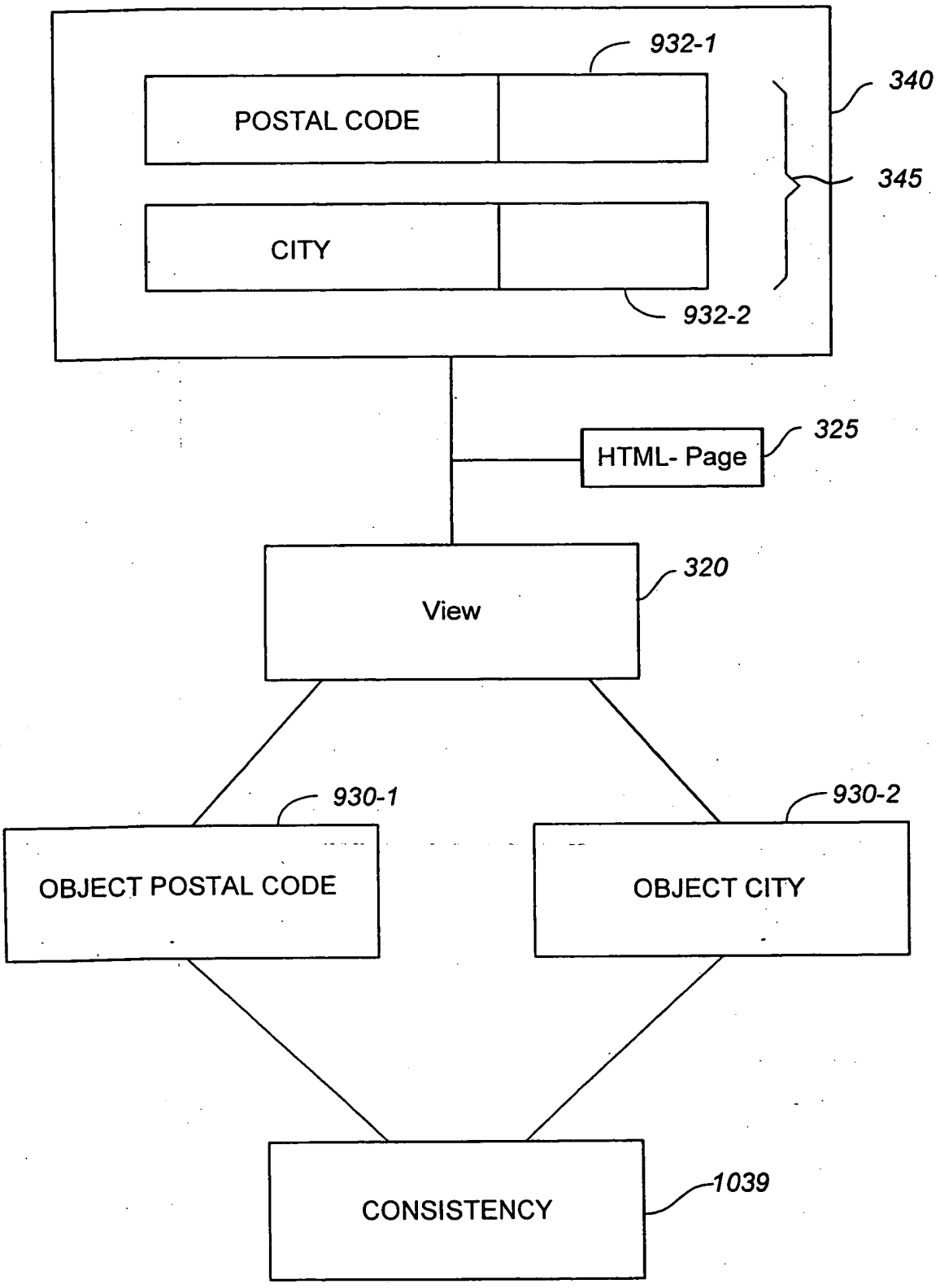
932-1
340
POSTAL CODE
345
CITY
932-2
HTML- Page
325
View
320
930-1
930-2
OBJECT POSTAL CODE
OBJECT CITY
CONSISTENCY
1039

FIG._ 9